

# Can memantine prevent memory impairment induced by MDMA in humans.

No registrations found.

<b>Ethical review</b>	Not applicable
<b>Status</b>	Pending
<b>Health condition type</b>	-
<b>Study type</b>	Interventional

## Summary

### ID

NL-OMON29601

### Source

Nationaal Trial Register

### Brief title

MEM-MDMA

### Health condition

MDMA induced memory impairment

## Sponsors and support

**Primary sponsor:** Maastricht University

**Source(s) of monetary or material Support:** NWO

## Intervention

## Outcome measures

### Primary outcome

Memory performance is the primary outcome and is measured immediately after each cannabis/placebo treatment. Memory is measured with a verbal memory test and a prospective memory test.

### Secondary outcome

Event related potentials are measured while performing the verbal memory test. P300 will be the outcome measure of the Event related potentials. Measurable and perceptual differences in speech will be studied between MDMA-influenced and non-intoxicated speech.

## Study description

### Background summary

Previous studies showed that ecstasy (MDMA) affects cognitive performance, such as memory. Animal studies have shown that memantine, a drug used in the treatment of Alzheimer patients, can prevent the memory problems caused by ecstasy.

This will be a double blind, placebo controlled, 4-way cross over design. Subjects will be pretreated with placebo or memantine. Two hours later they will be treated with placebo or MDMA. In between test days, a wash-out period of at least a week will be respected.

### Study objective

It is predicted that pretreatment with memantine can prevent the memory impairment that is usually caused by MDMA.

### Study design

Subjects will be pretreated with placebo or memantine. Two hours later they will be treated with placebo or MDMA.

### Intervention

1. Placebo - Placebo;
2. Memantine 20 mg - Placebo;
3. Placebo - MDMA 75 mg;
4. Memantine 20 mg - MDMA 75 mg.

## Contacts

### Public

E.L. Theunissen  
Maastricht

## Eligibility criteria

### Inclusion criteria

1. Recreational MDMA users;
2. Age between 18 and 40 years;
3. Free from psychotropic medication;
4. Good physical health;
5. Absence of any major medical, endocrine and neurological condition;
6. Normal weight;
7. Written Informed Consent.

### Exclusion criteria

1. History of drug abuse (other than the use of MDMA) or addiction;
2. Pregnancy or lactation;
3. Excessive drinking;
4. Hypertension;
5. Current or history of psychiatric disorder.

## Study design

## Design

Study type:	Interventional
Intervention model:	Crossover
Allocation:	N/A: single arm study
Masking:	Double blinded (masking used)
Control:	Placebo

## Recruitment

NL	
Recruitment status:	Pending
Start date (anticipated):	01-04-2011
Enrollment:	16
Type:	Anticipated

## Ethics review

Not applicable	
Application type:	Not applicable

## Study registrations

### Followed up by the following (possibly more current) registration

No registrations found.

### Other (possibly less up-to-date) registrations in this register

No registrations found.

## In other registers

Register	ID
NTR-new	NL2664
NTR-old	NTR2792

**Register**

Other  
ISRCTN

**ID**

MEC Maastricht University : 11-3-007  
ISRCTN wordt niet meer aangevraagd.

## Study results

**Summary results**

N/A